

## I. Introduction

1. Calendar: Range 2000-2099, 12/24-hour, time display: hour, minute.
2. Alarm/Snooze: You can set a group of alarm clocks ringing for two minutes every time. Snooze interval is 8 minutes and snooze times are unlimited.
3. Temperature and humidity:
  - Can query the history of maximum or minimum temperature and humidity and automatically update the history of temperature and humidity;
  - Temperature range: -10 °C ~ +61 °C (or 14.2 ~ +140 °F); °C/°F conversion;
  - The interval between automatic detections of temperature and humidity is 60 seconds;
  - Humidity range: 20% to 99%;
  - 12-hour temperature trend curve.
4. Display of icons for three levels of comfort: dry, comfortable and humid.
5. Four-level weather forecast according to temperature and humidity changes: sunny, half-sunny, cloudy and rainy.
6. 8-second LED backlight.
7. Sound control: when an alarm clock rings or make a large sound, LED will be on for 8 seconds.

## II. Basic Operations

1. Power on (or RESET), and accompanied by a "beep" sound LCD and LED lights are on for one second and then turned into the normal clock status.
2. Press the MODE button to switch the time, date and alarm mode.
3. In each mode, press and hold the MODE button for 2 seconds to enter setup.
4. In each setting mode, press the UP/DOWN button to adjust the settings, press and hold the UP/DOWN button to accelerate increment/decrement;
5. In any mode, press the DOWN button for °C/°F conversion;
6. In any mode, press the UP button to turn on/off the alarm;
7. In any mode, press and hold the UP button for 2 seconds to switch 12/24 hour;
8. When the alarm rings, press SNOOZE/LIGHT button to turn on the snooze;
9. Press the MAX/MIN button: to view maximum/minimum/current temperature and humidity;
10. S/C Buttons: It means Sensor/Close button which makes the clock sound and touch sensitive.

**NOTE:** Up and Down buttons are the same buttons of ▲12/24 and ▼°C/°F, little black triangles pointing up and down.

## III. Detailed Operation Instructions:

### 1. Mode Conversion:

- Press the MODE key to convert the mode according to the order: Time Mode → Date Mode → Alarm Mode → Return To Time Mode
- In date mode and alarm mode, if no button operation in about eight seconds, the system will return to normal time mode automatically.


### 2. Clock Mode:

- Power on (or RESET, and accompanied by a "beep" sound LCD and LED lights are on for one second and then turned into the normal clock status, default: January 1, 2011, SAT; Time: 0:00 (24-hour); alarm clock: 0:00 (closed).
- In any mode, press and hold the UP button for 2 seconds to switch 12/24 hour. 12HR timing system, there is a sign "PM" in the afternoon.
- In normal clock state, hold the MODE button for 2 seconds to set the alarm according to the order: Hour→Minute→Exit. Complete the setting by the UP/DOWN button, and press the UP or DOWN button to accelerate increment/decrement.
- Setting range: hour range is from 1 to 12 or 0 to 23, and minute range is from 0 to 59.
- In the setting mode, press the MODE button or no button for 8 seconds to automatically exit the setting mode and display the time currently set.

### 3. Date Mode:

- In date mode, the default is "January 1, 2011, SAT".
- In the normal date state, press and hold the MODE button for two seconds to set the date according to the order: Month→Day→Year→Exit. When setting, complete the setting by the UP/DOWN button, and press the UP or DOWN button to accelerate increment/decrement.
- Setting range: month range is from 1 to 12, day range is from 1 to 31 and year range is from 2000 to 2099.
- While setting the date, the week is automatically changed accordingly from MON to SUN.
- In the setting mode, press the MODE button or no button for 8 seconds to automatically exit the setting mode and display the time currently set.
- In the date mode, if no button operation in 8 seconds, the system will automatically return to time mode.

### 4. Alarm Mode:

- In the alarm mode, the  symbol appears with a default of 0:00.

- In any mode, press the UP button to turn on/turn off the alarm. After the alarm is on, the time interface will display the "☹" symbol.
- When the alarm symbol "☹" is not on, the alarm is turned off; only when the alarm symbol is turned on, the alarm function is effective.
- In alarm mode, press and hold the MODE button for 2 seconds to set the alarm according to the order: Hour→Minute→Exit. Complete the setting by the UP/DOWN button, and press the UP or DOWN button to accelerate increment/decrement.
- Setting range: hour range is from 1 to 12 or 0 to 23, and minute range is from 0 to 59.
- When reaching the alarm time, the alarm rings for two minutes. When the alarm is ringing, press any key to stop the alarm.
- When the alarm is ringing, LED is on for 8 seconds.
- When the alarm is ringing, press the SNOOZE/LIGHT button to stop the alarm and snooze interval is eight minutes. During turn on snooze, and then the "☹" symbol flashes. If you have turned on snooze, snooze, press any key to cancel the snooze function. As long as the alarm rings, press the SNOOZE/LIGHT button to pause, and snooze will be turned on many times.
- In the setting mode, press the MODE button or no button operation for 8 seconds to automatically exit the setting mode and display the time currently set.
- In alarm mode, if no button operation in 8 seconds, the system will automatically return to the time mode.

#### 5. Temperature and Humidity Detection:

- In any mode, press the MAX/MIN key to view last maximum and minimum ambient temperature/humidity remembered in the system in real time;
- The interval between automatic detections of temperature and humidity is 60 seconds
- In the normal state, press the DOWN button to convert between Celsius temperature and Fahrenheit temperature.

#### 6. Weather Forecast

Weather is divided into four levels: sunny, semi-sunny, cloudy and rainy.



Sunny



Half-sunny



Cloudy



Rainy

- When the temperature is less than 15 °C:
  - And the humidity is less than or equal to 40%, the system will display a sunny day;
  - And the humidity is between 41% and 65%, the system will display a half-sunny day;
  - And the humidity is between 66% and 71%, the system will display a cloudy day;
  - And the humidity is greater than or equal to 72%, the system will display a rainy day;
  - When the temperature is 15 °C ~ 24.9 °C:
  - And the humidity is less than or equal to 55%, the system will display a sunny day;
  - And the humidity is between 56% and 70%, the system will display a half-sunny day;
  - And the humidity is between 71% and 79%, the system will display a cloudy day;
  - And the humidity is greater than or equal to 80%, the system will display a rainy day;
  - When the temperature is greater than or equal to 25 °C:
  - And the humidity is less than or equal to 60%, the system will display a sunny day;
  - And the humidity is between 61% and 75%, the system will display a half-sunny day;
  - And the humidity is between 76% and 86%, the system will display a cloudy day;
  - And the humidity is greater than or equal to 87%, the system will display a rainy day;
7. Display of icons for three levels of comfort: dry, comfortable and humid
- When either temperature or humidity is less than 40%, the system will display the DRY icon.
  - When the temperature is at 20 ~ 25 °C and the humidity is between 40% and 69%, the system will display the COMFORT icon.
  - When either temperature or humidity is greater than or equal to 70%, the system will display the WET icon.
  - When the temperature is outside 20°C ~ 25 °C and the humidity is between 40 and 69%, no icon will be displayed.